Resinex™
Ion Exchange Resin

Resinex™ K-10 MB

Strong acidic cation exchange resin

Resinex™ K-10 MB is a high purity, strongly acidic gel-type cation exchange resin. The high crosslinked, polystyrene divinylbenzene matrix provides excellent resistance to physical breakdown. The high capacity achieved in demineralisation makes it suitable for most standard industrial water treatment applications. Together with optimisation of regenerant consumption, Resinex™ K-10 MB will allow you to obtain a high quality process water in economical manner. The special particle size offers a low pressure drop and makes it suitable for mixed bed applications.

Typical Properties

Type	Crosslinked polystyrene divinylbenzene
Form	Gel-type, amber, spherical beads
Functional group	Sulfonic acid
Whole bead count	95% min.
Ionic form, as shipped	Na^+
Bead size (≥ 90%)	0.70 - 1.25 mm
Uniformity coefficient	1.6 max.
Bulk density, as shipped	810 kg/m^3
Real density	1.31 g/cm^3
Water retention	45 - 48%
Total capacity (Na^+ form)	2.10 eq/l min.
Volume change Na^+ –> H^+	8% max.
Stability, temperature	120°C max.
Stability, pH	0 - 14

Standard Design Conditions

Bed depth	> 700 mm
Service flow rate	8 - 45 BV/h
Backwash expansion	50 - 75%

Key Features and Benefits

- **High Integrity Beads**
  Excellent resistance to mechanical degradation ensures an extended life-time
- **Extended Operating Capacity**
- **High Crosslinked**
  Excellent mechanical and chemical resistance
- **Selected Bead Size**
  Lower pressure drop perfect separation in mixed bed applications

Typical Applications

- Polshing mixed bed when used in combination with Resinex™ A-7 MB

Standard Packaging

- 25 lit. PE valve bag
- 1000 litre big bag

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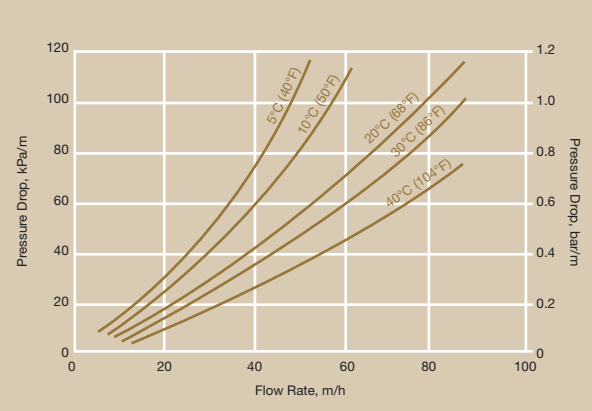
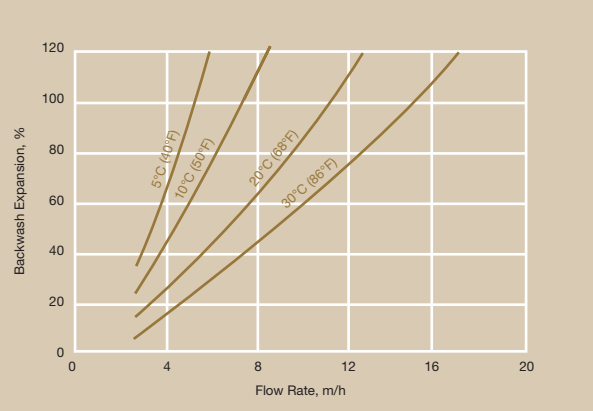
Pressure Drop



Backwash Expansion



Standard Regeneration Parameters	Co-Flow	Counter-Flow
Concentration	8% HCl	5% HCl
Level	60-150 g/l	45-70 g/l
Flow rate regenerant	4-6 BV/h	5-8 BV/h
Contact time regenerant	30-60 min.	20-40 min.
Flow rate slow rinse	2-20 BV/h	5-20 BV/h
Slow rinse water required	8-15 BV	3-6 BV
Flow rate fast rinse	20-40 BV/h	20-40 BV/h
Fast rinse water required	8-15 BV	3-6 BV

Product Packing

25 lit. polyethylene valve bag
48 bags per pallet

Polypropylene FIBCs
(big bag), 1.000 lit.

CAUTION Strong oxidizing agents such as nitric acid can react violently with ion exchange resins and cause explosive type reactions. Before using strong oxidants, consult sources knowledgeable in the handling of these materials.

RX-K10MB_e_Rev13_20120901

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THE CARBON COMPANY